

2

AD-A263 455



Draft

Department
of
Defense

DTIC
ELECTE
APR 26 1993
S E D

DoD

Electronic Data Interchange (EDI) Convention

ASC X12 Transaction Set 810
Invoice (Progress Payment)
(Version 003010)

93-08750



This document was prepared by the Logistics Management Institute for the Defense Logistics Agency under Task DL203. The task was performed under Contract MDA903-90-C-0006 with the Department of Defense. Permission to quote or reproduce any part of this document except for Government purposes must be obtained from the Department of Defense Executive Agent for Electronic Commerce/Electronic Data Interchange/Protection of Logistics Unclassified/Sensitive Systems.

Executive Agent for EC/EDI/PLUS
Defense Logistics Agency
Cameron Station
Alexandria, VA 22304-6100

10.0 DoD EDI CONVENTION

ASC X12 TRANSACTION SET 810 INVOICE (PROGRESS PAYMENT) (VERSION 003010)

FORMATTING INVOICE INFORMATION FOR THE DoD PAY-
MENT SYSTEM USING THE ASC X12 TRANSACTION SET 810
INVOICE (PROGRESS PAYMENT).

Accession For	
NTIS CRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	

DTIC QUALITY INSPECTED 5

{BLANK PAGE}

Contents

FORMATTING INVOICE INFORMATION FOR THE DoD PAYMENT SYSTEM USING THE ASC X12 TRANSACTION SET 810 INVOICE (PROGRESS PAYMENT).

10.1 Introduction

10.1 Reserved

10.2 Control Segments

10.3 Reserved

10.4 Reserved

10.5 Data Element Cross-Reference Matrix

10.6 Reserved

10.7 DoD Convention

10.A Reserved

10.B Reserved

10.C Examples - Invoice Information From Invoicing
Party to DoD Using ASC X12 810

10.D Reserved

10.E Reserved

10.F Reserved

{BLANK PAGE}

10.i INTRODUCTION

This is an Electronic Data Interchange (EDI) systems design document that describes the standard or "convention" the Department of Defense (DoD) will use to accept an invoice using the ASC X12 Transaction Set 810 Invoice (003010). It contains information for the design of interface computer programs that serve to link systems application computer programs and an EDI translator computer program.

Who Needs to Use This Document

Computer programmers can use this document to identify the data in a populated EDI transaction with data requirements of their specific application database. Conversely, programmers can identify where their applications data requirement should be carried in an EDI transaction.

Why Use a Convention

There are more ways to populate an EDI transaction than there are ways to fill out a blank form. A convention defines the rules for filling in or "populating" an EDI transaction with a specific data set. Following a convention ensures the integrity of data that is produced and processed by EDI capable computer systems.

Contents

Four sections are included in this document.

- Section 10.2, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments when sending and receiving EDI transactions.
- Section 10.5, Data Element Cross-Reference Matrix, lists the data requirements of DoD and specifies where each data element should be carried in the transaction set. This section can be used to map an existing application database into the transaction set.
- Section 10.7, DoD Conventions, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the cross-reference data element from Section 10.5. This section can be used to interpret segments and data elements of a populated transaction set.
- The Appendix contains an example of a populated transaction set.

{BLANK PAGE}

10.2 Control Segments

Overview

This chapter describes the Electronic Data Interchange (EDI) control segments (interchange control segments and functional group segments). The control segment information was derived from the ASC X12 Standards Draft Version 3 Release 1 (003010).

Purpose

This chapter identifies specific data requirement for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments is usually managed by EDI translation software. The data requirement described herein should be used to set control segment format when installing or initializing translation software for transmission and reception of EDI transaction.

Contents

Two items are included in this chapter.

- Table 10.2-1, Interchange Control Segment Hierarchy describes the control segments in their order of occurrence in an EDI communications interchange.
- Table 10.2-2, DoD Convention ASC X12 Control Segments is a detailed description of the Department of Defense data conventions for formatting EDI standard control segments. All segments identified in Table 10.2-1 are broken down and described by their discrete data elements.

{BLANK PAGE}

TABLE 10.2-1

Control Segment Hierarchy

{BLANK PAGE}

Interchange Control Envelope Control Segments

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ISA	Interchange Control Header	M	1	
USE	20	GS	Functional Group Header	M	1	
			<ul style="list-style-type: none"> • • Grouped Transactions • 			
USE	30	GE	Functional Group Trailer	M	1	
USE	40	IEA	Interchange Control Trailer	M	1	

{BLANK PAGE}

TABLE 10.2-2

DoD Convention

ASC X12 Control Segments

{BLANK PAGE}

Segment: ISA Interchange Control Header

Usage: M

Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments. The actual values of the data element separator and the segment terminator for this interchange are set by the interchange control header. For a particular interchange, the value at the fourth character position is the data element separator, and the value of the last character position is the value of the segment terminator.

Note: The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>				
ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information.	M ID 2/2				
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>00</td><td>No Authorization Information Present</td></tr></table>				<u>Code</u>	<u>Definition</u>	00	No Authorization Information Present
<u>Code</u>	<u>Definition</u>						
00	No Authorization Information Present						
ISA02	I02	Authorization Information Information used for additional identification or authorization of the sender or the data in the interchange.	M AN 10/10				
ISA03	I03	Security Information Qualifier Code to identify the type of information in the security information.	M ID 2/2				

Authorization Qualifier
[001]

Authorization Info
[002]

If no authorization information is agreed to by trading partners, fill field with zeroes.

Security Qualifier
[003]

Code Definition

00 No security information present.

Security Info
[004]

If no security information is agreed
to by trading partners, fill field with
zeros.

ISA04 I04 Security Information M AN 10/10
This is used for identifying the security information
about the sender or the data in the interchange.

Sender Qualifier
[005]

Use authorized X12 code list.

ISA05 I05 Interchange Id Qualifier M ID 2/2
Qualifier to designate the system/method of code
structure used to designate the sender ID element
being qualified.

Sender Id
[006]

DoD activities use Department of
Defense Activity Address Code
(DoDAAC) or other code coor-
dinated with the value-added net-
work (VAN). Non-DoD activities use
identification code qualified by
ISA05 and coordinated with the VAN.

ISA06 I06 Interchange Sender's Id M ID 15/15
Identification code published by the sender for
other parties to use as the receiver ID to route data
to them.

Interchange Qualifier
[007]

Use authorized X12 code list.

ISA07 I05 Interchange Id Qualifier M ID 2/2
Code to identify the type of information in the
Authorization Information.

Receiver Id
[008]

DoD activities use Department of
Defense Activity Address Code
(DoDAAC) or other code coor-
dinated with the value-added net-
work (VAN). Non-DoD activities use
identification code qualified by
ISA05 and coordinated with the VAN.

Date
[009]

Assigned by translation software.

Time
[010]

Assigned by translation software.

Standards Id
[011]

Version Id
[012]

Version ID as defined or agreed
upon by the trading partners.

ISA08 I07 Interchange Receiver's Id M ID 15/15
Identification code published by the receiver of the
data.

ISA09 I08 Interchange Date M DT 6/6
Date of the interchange.

ISA10 I09 Interchange Time M TM 4/4
Time of the interchange.

ISA11 I10 Interchange Control Standard M ID 1/1
Identifier
Code to identify the agency responsible for the con-
trol standard used by the message that is enclosed
by the interchange header and trailer.

ISA12 I11 Interchange Control Version M ID 5/5
This version number covers the interchange control
segments and the functional group control segments.

Code	Definition
03010	Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1990

<p>Interchange Control Number [013] Assigned by translation software.</p>	<p>ISA13 I12 Interchange Control Number M NO 9/9 This number uniquely identifies the interchange data to the sender.</p>						
<p>Acknowledgment Request [014] Code value agreed upon by trading partners.</p>	<p>ISA14 I13 Acknowledgment Requested M ID 1/1 Code sent by the sender to request an interchange acknowledgement.</p> <table> <tr> <th>Code</th><th>Definition</th></tr> <tr> <td>0</td><td>No Acknowledgment Requested</td></tr> <tr> <td>1</td><td>Interchange Acknowledgement Requested</td></tr> </table>	Code	Definition	0	No Acknowledgment Requested	1	Interchange Acknowledgement Requested
Code	Definition						
0	No Acknowledgment Requested						
1	Interchange Acknowledgement Requested						
<p>Test Indicator [015] Code value agreed upon by trading partners.</p>	<p>ISA15 I14 Test Indicator M ID 1/1 Code to indicate whether data enclosed by this interchange envelope is test or production.</p> <table> <tr> <th>Code</th><th>Definition</th></tr> <tr> <td>P</td><td>Production Data</td></tr> <tr> <td>T</td><td>Test Data</td></tr> </table>	Code	Definition	P	Production Data	T	Test Data
Code	Definition						
P	Production Data						
T	Test Data						
<p>Subelement Separator [016] Use ASCII character 58, colon ':'.</p>	<p>ISA16 I15 Subelement Separator M AN 1/1 This is a field reserved for future expansion in separating data element subgroups.</p>						

Segment: GS Functional Group Header
Usage: M
Purpose: To indicate the beginning of a functional group and to provide control information
Comment: A. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.
Syntax Notes: 01 The data interchange control number (GS06) in this header must be identical to the same data element in the associated Functional Group Trailer (GE02).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GS01	479	Functional Id Code Code identifying a group of application related Transaction Sets.	M ID 2/2
		<u>Code</u> <u>Definition</u>	
		IN 810 - Invoice Information	
GS02	142	Application Sender's Code Code identifying party sending transmission. Codes agreed to by trading partners.	M ID 2/12
GS03	124	Application Receiver's Code Code identifying party receiving transmission. Codes	M ID 2/12

Functional Id
[020]

Choose the code value appropriate to the information content of the functional group. See X12 Dictionary for source code list.

Sender's Code
[021]

DoD activities use Department of Defense Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA06.

agreed to by trading partners.

Receiver's Code
[022]

DoD activities use Department of
Defense Activity Address Code
(DoDAAC). Non-DoD activities use
identification code assigned by DoD
activity. Recommend for increased
security that non-DoD code differ
from that used in ISA06.

Date
[023]

Assigned by translation software.

Time
[024]

Assigned by translation software.

Group Control Number
[025]

Assigned by translation software.

Agency Code
[026]

Indicates that an ANSI X12 standard
is being transmitted.

GS04 29 Group Date M DT 6/6
Date sender generated a functional group of transac-
tion sets.

GS05 30 Group Time M TM 4/4
Time (HHMM) when the sender generated a func-
tional group of transaction sets (local time at
sender's location).

GS06 28 Group Control Number M NO 1/9
Assigned number originated and maintained by the
sender.

GS07 455 Responsible Agency Code M ID 1/2
Code used in conjunction with Data Element 480 to
identify the issuer of the standard.

Code Definition

X Accredited Standards Committee X12

GS08 480 Version/Release/Industry Id

M ID 1/12

Code

Code indicating the version, release, subrelease and industry identifier of the EDI standard being used.
(See X12 Dictionary)

Version/Release
[027]

Code value agreed to by trading partners. See X12 Dictionary for source code list.

<u>Code</u>	<u>Definition</u>
-------------	-------------------

003010	Draft Standards Approved By ASC X12 Through June 1990
--------	---

Segment: GE Functional Group Trailer

Usage: M

Purpose: To indicate the end of a functional group and to provide control information

Comment: A. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Syntax Notes: 01 The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated Functional Group Header (GS06).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	97	Number of Included Sets Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.	M NO 1/6
GE02	28	Group Control Number Assigned number originated and maintained by the sender.	M NO 1/9

Number of Segments
[028]

Assigned by the translation
software.

Group Control Number
[029]

Assigned by the translation
software. This control number must
match the control number of the
preceding GS06 control number.

Segment: IEA Interchange Control Trailer

Usage: M

Purpose: To define the end of an interchange of one or more functional groups and interchange related control segments.

Note: The interchange control number in this trailer must match the value in the same data element in the corresponding interchange header.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in a transmission.	M NO 1/5

Functional Group Count
[040]

Assigned by translation software.

IEA02	I12	Interchange Control Number This number uniquely identifies the interchange data to the sender.	M NO 9/9
-------	-----	---	----------

Interchange Control Number
[041]

Assigned by translation software.
This number must match the number that occurs in ISA13.

{BLANK PAGE}

10.5 DATA ELEMENT CROSS-REFERENCE MATRIX

Overview

This chapter lists the data element cross-reference between the Department of Defense (DoD) ASC X12 Transaction Set 810 Invoice (003010). We derived the cross-reference from the following:

- Examination of DoD invoice information data requirements.
- Analysis of ASC X12 Transaction Set 810 Invoice.
- Comments submitted by DoD activities involved in the DoD electronic data interchange effort.

Purpose

This chapter identifies specific data in an application and their corresponding EDI mapping into the Transaction Set 810. Data elements from an existing application database can be identified with elements in this cross-reference. If no application exists, the cross-reference provides enough information to develop a database design to automate the application. With an application in place, this cross-reference will expedite mapping of the database into a commercial EDI translation package. All trading partners who plan to exchange the 810 with DoD can use this document as a reference for the development of their database/EDI translator interface program.

Contents

One table is included in this chapter. Table 10.5-1, Data Element Cross-Reference lists all the discrete data elements of the DoD invoice data requirements and their corresponding segment and data element of the ASC X12 Transaction Set 810 Invoice.

{BLANK PAGE}

TABLE 10.5-1

DATA ELEMENT CROSS-REFERENCE

DoD Invoice Data Using ASC X12 Transaction Set 810 Invoice.

How To Read This Table

Table 10.5-1 cross-references discrete DoD invoice data requirements to the corresponding segment and data elements of the Transaction Set 810. The following definitions explain how table 10.5-1 is organized. Understanding the information in this table requires familiarity with EDI standards.

Government References

The first three columns on the left in Table 10.5-1 identify the specific invoice data element.

- **INVOICE DATA NAME:** Lists individual data elements required to send an invoice. The user should identify these elements with a data name in their internal database system.
- **INDEX:** Three entries may appear in this column and represent various levels of indexing used to sort the data names in a data dictionary.
- **Q:** An asterisk (*) in this column identifies the data as a qualifier code.

EDI References

The remaining seven columns identify the detailed mapping of each data name into Transaction Set 810. Using these references is explained below in "How To Use This Table".

- **AREA:** The area of the transaction set where the data is mapped. A = header, B = detail, C = summary.
- **POS:** The sequential position of a specific segment within the area of the transaction set.
- **REF DES:** The first two or three alphanumeric characters identify a transaction set segment; the last two numeric characters in the column identify a data element position in the segment.
- **DE #:** The EDI data element number that appears at that position in the segment.
- **VALUE:** The recommended code value(s) that should be used.

- DoD CONVENTIONS: Additional information about the data as they apply to Department of Defense use.

How To Use This Table

This table maps a data element to a specific data element in an EDI transaction set.

1. Select any data element from the INVOICE DATA NAME list,
2. Identify the AREA, POS, and REF DES for that DATA NAME,
3. Go to Table 10.7-2 DoD Segment Hierarchy,
4. Find the AREA (Table A = header, etc.) in the hierarchy,
5. Locate the segment that corresponds to the POS and the REF DES. NOTE: The POS may not appear in some hierarchy tables. In this case, use the segment id identified by the first 2-3 characters in the REF DES,
6. In the left-hand column, identify the page number of the segment id,
7. Turn to that page number in Table 10.7-3,
8. Now in the convention table 10.7-3, find the REF DES from step, 2 under the Ref. Des. column on the right hand side of the page,
9. You have now mapped a data element from table 10.5-1 into the convention table 10.7-3.

The INVOICE DATA NAME from Table 10.5-1 appears in the right hand column along with its INDEX and the DoD CONVENTION. The EDI standard definition of the data element appears in the right hand column of the page.

Each INVOICE DATA NAME from Table 10.5-1 can be mapped into the transaction set in this manner.

{BLANK PAGE}

TENDER DATA NAME	INDEX	Q	A	POS	REF DES	DE #	VALUE	DoD CONVENTION	DoD ReqDes
Transaction Set Identifier Code	[001 A]	*	1	10	ST01	143	810	- X12.2 Invoice	
The following comments provide mapping instructions for establishing a request to a Progress Payment.									
Transaction Set Control Number	[002 A]		1	10	ST02	329		Control No, (same number will be found in SE02 in Summary).	
Invoice Date	[003 A]		1	20	BKG01	245		Invoice Date, expressed as YYMMDD. BLOCK 8b. The date of the request for progress payment.	
Invoice Number	[004 A]		1	20	BKG02	76		A unique number assigned by the Billing Party where required to do so by company or DoD. BLOCK 8a.	
Purchase Order Date	[005 A]		1	20	BKG03	323		If no invoice number, insert a zero (0). See REF segment for Progress Payment Number. BLOCKS 7a and 7b.	
Purchase Order Number	[006 A]		1	20	BKG04	324		Procurement Instrument Identification Number, (PIN). BLOCK 4.	
Release Number	[007 A]		1	20	BKG05	326		Call/order number. BLOCK 4.	
Change Order Sequence Number	[008 A]		1	20	BKG06	327		Modification Number, (SPIN). BLOCK 4.	

Transaction Type Code	[009 A]	*	1	20	BIG07	640	CO	- Corrected
							PA	- Progress Payment
							RE	- Rebill

Use code RE for a selling party generated request to withdraw, without processing, a previously submitted request for a progress payment.

Reference Number Qualifier	[010 A]	*	1	50	REF01	128	PX	- Previous Invoice Number
							VR	- Vendor ID Number

Use code VR to carry the seller's unique identification number. Code PX maps to the blank space in the certification paragraph.

Reference Number	[011 A]		1	50	REF02	127		
Entity Identifier Code	[012 A]	*	1	70	N101	98	21	- Small Business
							BY	- Buying Party (Purchaser)
							PR	- Payer
							SE	- Selling Party

Use code SE when the selling party is a large business. Use code 21 when the selling party is a small business. BLOCK 3.

Name	[013 A]		1	70	N102	93		
------	---------	--	---	----	------	----	--	--

Use only when address of the Selling Party (N101 code SE) cannot be described using that party's CAGE Code (N103 code 33 and N104, the actual CAGE Code). BLOCKS 1 (code BY and PR) and 2 (code SE).

Identification Code Qualifier	[014 A]	*	1	70	N103	98	10	- Department of Defense Activity Code (DODAAC)
							33	- Commercial and Government Entity (CAGE)
							ZZ	- Mutually Defined

Use code 10 when N101 is code PR, use code 33 when N101 is code 21 or SE, use code ZZ when N101 is code BY. Code ZZ is the DFARS Appendix G Code of the Buying Office.

Identification Code	[015 A]		1	70	N104	67		
---------------------	---------	--	---	----	------	----	--	--

The actual DODAAC of Paying Office, CAGE Code of Selling Party, or Defense Federal Acquisition Regulation Supplement (DFARS), Appendix N Code of the Buying Office. NOTE: DFARS Appendix N is now Appendix G.

TENDER DATA NAME	INDEX	Q	A	POS	REF DES	DE #	VALUE	DoD CONVENTION	DoD ReqDes
Name	[016 A]		1	80	N201	93		Use only when address cannot be described using a code in the N1 segment.	
Name	[017 A]		1	80	N202	93		Use only when address cannot be described using a code in the N1 segment.	
Address Information	[018 A]		1	90	N301	166		Use only when address cannot be described using a code in the N1 segment. (If used, carry items such as building number, street name, suite, apartment or office number. For example: 10 Main Street, Suite 300.)	
Address Information	[019 A]		1	90	N302	166		If needed, an additional 2nd line of address, use only when address cannot be described using a code in the N1 segment.	
City Name	[020 A]		1	100	N401	19		City Name, use only when address cannot be described using a code in the N1 segment.	
State or Province Code	[021 A]		1	100	N402	156		Two-character code for State.	
Postal Code	[022 A]		1	100	N403	116		Zip Code.	

Contact Function Code

[023 A] * 1 120 PER01 306 AC - Administrative Contracting Officer
CE - Certifier

Use code CE for the name of the contractor representative and code AC for the contracting officer. Transmit names as last name, first name, middle initial.

Name [024 A] 1 120 PER02 93

Communication Number Qualifier [025 A] * 1 120 PER03 306

- AU - AUTOVON
- EM - Electronic Mail
- FT - Federal Telecommunications System (FTS)
- FX - Facsimile
- IT - International Telephone
- PS - Packet Switching
- TE - Telephone
- TL - Telex
- TM - Telemail
- TX - TWS

Communication Number [026 A] 1 120 PER04 364

Terms Type Code [027 A] * 1 130 ITD01 336 06 - Basic Discount Offered
14 - Previously Agreed Upon

Use code 14 for the liquidation rate, BLOCK 6b and code 06 for the progress payment rate, BLOCK 6a.

Terms Discount Percent [028 A] 1 130 ITD03 336

Discount Percent. When ITD01 is code 14, insert the liquidation rate; when code 06, insert the progress payment rate.

Terms Discount Days Due [029 A] 1 130 ITD05 361

Discount Days. When ITD03 is filled, insert a zero (0) in ITD05 to satisfy syntax requirement.

Date/Time Qualifier [030 A] * 1 140 DTM01 374 041 - Status (Prior and Including)
152 - Effective Date of Change

Use code 041 to represent the section II date referred to as "statement of costs under this contract through". Use code 152 to represent the certification date from which there has been no materially adverse change in financial condition.

Date [031 A] 1 140 DTM02 373

TENDER DATA NAME	INDEX	Q	A	POS	REF DES	DE #	VALUE	DoD CONVENTION	DoD ReqDes
Assigned Identification	[032 A]		2	10	IT101	350		REQUIRED The number of the line of costs being reported. BLOCKS 19 or 26. Use the number 28 for outlays to date and the number 29 for estimated next quarter outlays. When IT101 contains "FMS," the amount in IT104 is the FMS total amount.	
Quantity Involved	[033 A]		2	10	IT102	358		Use the number 1 to satisfy syntax requirement.	
Unit of Measurement Code	[034 A]	*	2	10	IT103	355	EA - Each	Use code EA to satisfy the syntax requirement.	
Unit Price	[035 A]		2	10	IT104	212		The amount for the line or FMS total cited in IT101.	
Assigned Identification	[036 A]		2	200	SLN01	350		Repeat the number or alpha code in IT101.	
Assigned Identification	[037 A]		2	200	SLN02	350		REQUIRED The number of the line being reported; 9 through 25 less lines 19 and 26, or a two-character Country Code when SLN01 is FMS.	
Configuration Code	[038 A]	*	2	200	SLN03	001	1 - Included	Always use code 1.	
Quantity	[039 A]		2	200	SLN04	350		Use the number "1" to satisfy the syntax requirement.	

Unit of Measurement Code [040 A] * 2 200 SLN05 355 EA - Each

Use code EA to satisfy the syntax requirement.

Unit Price	[041 A]	2	200	SLN06	212	The amount of the line cited in SLN01.
Total Invoice Amount	[042 A]	3	10	TDS01	361	The amount of the request for progress payment. BLOCK 26 repeated here.
Amount Subject to Terms Discount	[043 A]	3	10	TDS02	390	An entry in TDS02 indicates that the amount requested is less than the mathematical total of the request for progress payment.
Discounted Amount Due	[044 A]	3	10	TDS03	391	The amount allowed by the contracting officer. BLOCK 27.
Terms Discount Amount	[045 A]	3	10	TDS04	392	Total amount of the contract. BLOCK 5.
Number of Line Items	[046 A]	3	70	CTT01	364	CTT01 will carry the accumulation of the number of IT1 segments contained in the transaction set.
Number of Included Segments	[047 A]	3	80	SED1	96	
Transaction Set Control Number	[048 A]	3	80	SED2	329	Control No. (same number will be found in ST02 in Header).

{BLANK PAGE}

10.7 DoD CONVENTIONS

Overview

This chapter is the convention for the ASC X12 Transaction Set 810 (Version 003010) as used by the Department of Defense for accepting an invoice. It was derived from:

- Table 10.5-1, Data Element Cross-Reference Matrix that describes the discrete DoD data requirements for invoices.
- ASC X12 Transaction Set 810 Invoice.

A relational database management system was used to merge the Data Element Cross-Reference Matrix and a Transaction Set 810 database into the subset of 810 segments described in table 10.7-3 of this chapter.

Purpose

This chapter contains all necessary information for a DoD trading partner to map and translate a Transaction Set 810. All trading partners who plan to exchange the Transaction Set 810 can use this document as a reference for the development of their EDI database/translator interface program.

Contents

Three tables are included in this chapter.

- Table 10.7-1, ASC X12 Transaction Set 810 Segment Hierarchy describes the 810 segments as they appear in the ASC X12 Standards Dictionary.
- Table 10.7-2, DoD Model Transaction Set 810 Segment Hierarchy describes the subset of 810 segments used for sending Progress Payment invoices.
- Table 10.7-3, Conventions is a detailed description of the Department of Defense conventions for transmitting Transaction Set 810. All segments identified in Table 10.7-2 are detailed in Table 10.7-3 by segment, position, and code value.

{BLANK PAGE}

TABLE 10.7-1

SEGMENT HIERARCHY

ASC X12 TRANSACTION SET 810
INVOICE (Version 003010)

{BLANK PAGE}

ASC X12.xx Transaction Set810V310
Transaction Set Name and Version
Segment Hierarchy

Table 1 - Header Area

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ST	Transaction Set Header	M	1	
USE	20	BIG	Beginning Segment for Invoice	M	1	
	30	NTE	Note/Special Instruction	F	100	
	40	CUR	Currency	O	1	
USE	50	REF	Reference Numbers	O	12	
	60	PER	Administrative Communications Contact	O	3	
USE	70	N1	Name	O	1	N1\200
USE	80	N2	Additional Name Information	O	2	
USE	90	N3	Address Information	O	2	
USE	100	N4	Geographic Location	O	1	
	110	REF	Reference Numbers	O	12	
USE	120	PER	Administrative Communications Contact	O	3	
USE	130	ITD	Terms of Sale/Deferred Terms of Sale	O	5	
USE	140	DTM	Date/Time Reference	O	10	
	150	FOB	F.O.B. Related Instructions	O	1	
	160	PID	Product/Item Description	O	200	
	170	MEA	Measurements	O	40	
	180	PWK	Paperwork	O	25	
	190	PKG	Marking, Packaging, Loading	O	25	
	200	L7	Tariff Reference	O	1	

Table 2 - Detail Area

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	IT1	Baseline Item Data (Invoice)	O	1	IT1\200000
	20	CUR	Currency	O	1	
	30	IT3	Additional Item Data	O	5	
	40	TXI	Tax Information	O	10	
	50	CTP	Pricing Information	O	25	

USE

50	MEA	Measurements	O	40	
60	PID	Product/Item Description	O	1	PID\1000
70	MEA	Measurements	O	10	
80	PWK	Paperwork	O	25	
90	PKG	Marking, Packaging, Loading	O	25	
100	PO4	Item Physical Details	O	1	
110	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
120	REF	Reference Numbers	O	1	
130	PER	Administrative Communications Contact	O	5	
140	SDQ	Destination Quantity	O	500	
150	DTM	Date/Time Reference	O	10	
160	CAD	Carrier Detail	O	1	
170	L7	Tariff Reference	O	1	
180	ITA	Allowance, Charge or Service	O	1	ITA\10
190	TXI	Tax Information	O	10	
200	SLN	Subline Item Detail	O	1	SLN\1000
210	REF	Reference Numbers	O	1	
220	PID	Product/Item Description	O	1000	
230	ITA	Allowance, Charge or Service	O	10	
240	N1	Name	O	1	N1\200
250	N2	Additional Name Information	O	2	
260	N3	Address Information	O	2	
270	N4	Geographic Location	O	1	
280	REF	Reference Numbers	O	12	
290	PER	Administrative Communications Contact	O	3	

USE

Table 3 - Summary Area

Pos No.	Seg ID	Name	Req Des	Use	Loop
10	TDS	Total Monetary Value Summary	M	1	
20	TXI	Tax Information	O	10	
30	CAD	Carrier Detail	O	1	
40	ITA	Allowance, Charge or Service	O	1	ITA\10

	80	TXI	Tax Information	O	10
USE	60	ISS	Invoice Shipment Summary	O	5
USE	70	CTT	Transaction Totals	M	1
	80	SE	Transaction Set Trailer	M	1

{BLANK PAGE}

TABLE 10.7-2

SEGMENT HIERARCHY

DoD MODEL FOR TRANSACTION SET 810 INVOICE

{BLANK PAGE}

ASC X12.xx Transaction Set810V310
Transaction Set Name and Version
Segment Hierarchy

Table 1 - Header Area

Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ST Transaction Set Header	M	1	
USE	20	BIG Beginning Segment for Invoice	M	1	
USE	80	REF Reference Numbers	O	12	
USE	70	N1 Name	O	1	N1\200
USE	80	N2 Additional Name Information	O	2	
USE	90	N3 Address Information	O	2	
USE	100	N4 Geographic Location	O	1	
USE	120	PER Administrative Communications Contact	O	3	
USE	130	ITD Terms of Sale/Deferred Terms of Sale	O	5	
USE	140	DTM Date/Time Reference	O	10	

Table 2 - Detail Area

Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	IT1 Baseline Item Data (Invoice)	O	1	IT1\200000
USE	200	SLN Subline Item Detail	O	1	SLN\1000

Table 3 - Summary Area

Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	TDS Total Monetary Value Summary	M	10	
USE	70	CTT Transaction Totals	M	1	
USE	80	SE Transaction Set Trailer	M	1	

{BLANK PAGE}

TABLE 10.7-3

DoD 810 CONVENTION

How To Read This Table

This table contains two sets of references. ASC X12 references are contained in the right-hand column. Government references are contained in the left-hand column except for codes lists which are included in the right-hand column.

Government References

The left-hand and middle columns in Table 10.7-3 describe Department of Defense conventions.

- Left-hand column contains two general references.
 - > INDEX: is enclosed in brackets and corresponds to a specific INDEX from Table 10.5-1.
 - > INVOICE DATA NAME: Appears above the INDEX and corresponds to a specific DATA NAME from Table 10.5-1.
- Middle column: Contains a less-than sign to indicate where Department of Defense conventions vary from the ASC X12 convention.

To help the user determine the source data, the INDEX can be used to trace data elements back to Table 10.5-1.

ASC X12 References

The right-hand column describes the ASC X12 conventions. The information included at the beginning of a segment description is standard ASC X12 information. The subheadings listed under Data Element Summary describe conventions for each data element in the segment.

- > Ref Des, Data Element, Attributes: Three subheadings describe the format of the segment as prescribed by ASC X12.
- > Name: Describes the ASC X12 data element and offers the standard definition. It also lists the specific code values the Department of Defense prescribes and may provide other Department of Defense information.

How To Use This Table

This table can be used to identify the data contained in populated Transaction Set 810.

1. Identify a segment from a populated transaction set (See Appendix 10.C for examples of the 810).
2. Look up the segment in table 10.7-3.
3. Read the right-hand column to identify the Reference Designator (Ref.Des.). The Reference Designator combines the segment id and the data element position to form a single identifier.
4. Read the left-hand column immediately adjacent to the Reference Designator to find the discrete DATA NAME, INDEX, and DoD CONVENTION from Table 10.5-1 that is mapped to that Reference Designator. When multiple DATA NAMEs appear for a single Reference Designator, there is usually a code qualifier somewhere in the same segment that identifies the data.

Segment: ST Transaction Set Header
Table: 1
Sequence: 10
Usage: M
Max Use: 1
Loop:
Purpose: To indicate the start of a transaction set and to assign a control number
Comment: A. The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code unique'y identifying a Transaction Set.	

Transaction Set Identifier Code
[001 A *]

The following comments provide mapping instructions for establishing a request to a Progress Payment.

Code	Definition
810	X12.2 Invoice

ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number assigned by the originator for a transaction set.	

Transaction Set Control
Number
[002 A]

Control No. (same number will be found in SE02 in Summary).

Segment: BIG Beginning Segment for Invoice

Table: 1

Sequence: 20

Usage: M

Max Use: 1

Loop:

Purpose: To indicate the beginning of an invoice transaction set and to transmit identifying numbers and dates.

Comment: A. BIG07 is used only to further define the type of invoice when needed.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
BIG01	245	Invoice Date Invoice Issue Date.	M DT 6/6

Invoice Date
[003 A]

Invoice Date, expressed as YYMMDD. BLOCK 8b. The date of the request for progress payment.

BIG02	76	Invoice Number Identifying number assigned by issuer.	M AN 1/22
-------	----	--	-----------

Invoice Number
[004 A]

A unique number assigned by the Billing Party where required to do so by company or DoD. BLOCK 8a.

BIG03	323	Purchase Order Date Date assigned by the purchaser to Purchase Order.	O DT 6/6
-------	-----	--	----------

Purchase Order Date
[005 A]

If no Invoice number, insert a zero (0). See REF segment for Progress Payment Number. BLOCKS 7a and 7b.

Purchase Order Number
[006 A]

Procurement Instrument Identification Number, (PIN). BLOCK 4.

Release Number
[007 A]

Call/order number. BLOCK 4.

Change Order Sequence
Number
[008 A]

Modification Number, (SPIN).
BLOCK 4.

Transaction Type Code
[009 A *]

Use code RE for a selling party
generated request to withdraw,
without processing, a previously sub-
mitted request for a progress pay-
ment.

BIG04 324 Purchase Order Number O AN 1/22
Identifying number for Purchase Order assigned by
the orderer/purchaser.

BIG05 328 Release Number O AN 1/30
Number identifying a release against a Purchase
Order previously placed by the parties involved in
the transaction.

BIG06 327 Change Order Sequence Number O AN 1/8
Number assigned by the orderer identifying a
specific change or revision to a previously trans-
mitted transaction set.

BIG07 640 Transaction Type Code O ID 2/2
Code specifying the type of transaction.

<u>Code</u>	<u>Definition</u>
CO	Corrected
PA	Progress Payment
RE	Rebill

Segment: REF Reference Numbers
Table: 1
Sequence: 50
Usage: O
Max Use: 12
Loop:
Purpose: To specify identifying numbers.
Syntax Notes: 02 Either REF02 or REF03 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	128	Reference Number Qualifier	M ID 2/2
Code qualifying the Reference Number.			

Reference Number Qualifier
[010 A *]

Use code VR to carry the seller's unique identification number. Code PX maps to the blank space in the certification paragraph.

Code Definition

PX	Previous Invoice Number
VR	Vendor ID Number

REF02	127	Reference Number	C AN 1/30
Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.			

Reference Number
[011 A]

REF03	352	Description	C AN 1/80
-------	-----	-------------	-----------

Segment: N1 **Name**

Table: 1

Sequence: 70

Usage: O

Max Use: 1

Loop:

Purpose: To identify a party by type of organization, name and code

Comment: A. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Syntax Notes: 01 At least one of N102 or N103 must be present.
02 If either N103 or N104 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	98	Entity Identifier Code	M ID 2/2

Code identifying an organizational entity or a physical location.

Entity Identifier Code
[012 A *]

Use code SE when the selling party is a large business. Use code 21 when the selling party is a small business. BLOCK 3.

Code	Definition
21	Small Business
BY	Buying Party (Purchaser)
PR	Payer
SE	Selling Party

Name
[013 A]

Use only when address of the Selling Party (N101 code SE) cannot be described using that party's CAGE Code (N103 code 33 and N104, the actual CAGE Code). BLOCKS 1 (codes BY and PR) and 2 (code SE).

Identification Code Qualifier
[014 A *]

Use code 10 when N101 is code PR, use code 33 when N101 is code 21 or SE, use code ZZ when N101 is code BY. Code ZZ is the DFARS Appendix G Code of the Buying Office.

Identification Code
[015 A]

The actual DODAAC of Paying Office, CAGE Code of Selling Party, or Defense Federal Acquisition Regulation Supplement (DFARS), Appendix N Code of the Buying Office.
NOTE: DFARS Appendix N is now Appendix G.

N102 93 Name C AN 1/35
Free-form name.

N103 66 Identification Code Qualifier C ID 1/2
Code designating the system/method of code structure used for Identification Code (67).

Code	Definition
10	Department of Defense Activity Code (DODAAC)
33	Commercial and Government Entity (CAGE)
ZZ	Mutually Defined

N104 67 Identification Code C ID 2/17
Code identifying a party.

Segment: N2 Additional Name Information
Table: 1
Sequence: 80
Usage: O
Max Use: 2
Loop:
Purpose: To specify additional names or those
longer than 35 characters in length

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N201	93	Name Free-form name.	M AN 1/35
N202	93	Name Free-form name.	O AN 1/35

Name
[016 A]

Use only when address cannot be
described using a code in the N1
segment.

Name
[017 A]

Use only when address cannot be
described using a code in the N1
segment.

Segment: N3 Address Information
Table: 1
Sequence: 90
Usage: O
Max Use: 2
Loop:
Purpose: To specify the location of the named party

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N301	166	Address Information Address information	M AN 1/35
N302	166	Address Information Address information	O AN 1/35

Address Information [018 A]

Use only when address cannot be described using a code in the N1 segment. (If used, carry items such as building number, street name, suite, apartment or office number. For example: 10 Main Street, Suite 300.).

Address Information [019 A]

If needed, an additional 2nd line of address, use only when address cannot be described using a code in the N1 segment.

Segment: N4 Geographic Location
Table: 1
Sequence: 100
Usage: O
Max Use: 1
Loop:

Purpose: To specify the geographic place of the named party

Comment: A. A combination of either N401 through N404 (or N405 and N406) may be adequate to specify a location.
B. N402 is required only if city name (N401) is in the USA or Canada.

Syntax Notes: 01 At least one of N401 or N405 must be present.
02 If N401 is present, then N402 is required.
03 If either N405 or N406 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	19	City Name Free-form text for city name.	C AN 2/19
N402	156	State or Province Code Code (Standard State/Province) defined by appropriate governmental agencies.	C ID 2/2

City Name
[020 A]

City Name, use only when address cannot be described using a code in the N1 segment.

State or Province Code
[021 A]

Two-character code for State.

Postal Code
[022 A]
Zip Code.

N403	116	Postal Code	O ID	4/9
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States).		
N404	26	Country Code	O ID	2/2
N405	309	Location Qualifier	O ID	1/2
N406	310	Location Identifier	C AN	1/25

Segment: **PER** Administrative Communications
Contact

Table: 1
Sequence: 120
Usage: 0
Max Use: 3

Loop:

Purpose: To identify a person or office to whom administrative communications should be directed

Syntax Notes: 01 If PER03 is present, then PER04 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PER01	366	Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named.	

Contact Function Code
[023 A *]

Use code CE for the name of the contractor representative and code AC for the contracting officer. Transmit names as last name, first name, middle initial.

Code Definition

AC	Administrative Contracting Officer
CE	Certifier

PER02	93	Name	O AN 1/35
		Free-form name.	

Name
[024 A]

Communication Number
Qualifier
[025 A *]

PER03 365 Communication Number O ID 2/2
Qualifier
Code identifying the type of communication number.

Code	Definition
AU	AUTOVON
EM	Electronic Mail
FT	Federal Telecommunications System (FTS)
FX	Facsimile
IT	International Telephone
PS	Packet Switching
TE	Telephone
TL	Telex
TM	Telemail
TX	TWS

Communication Number
[026 A]

PER04 364 Communication Number C AN 7/21
Complete communications number including
country or area code when applicable.

Segment: ITD Terms of Sale/Deferred Terms
of Sale

Table: 1

Sequence: 130

Usage: O

Max Use: 5

Loop:

Purpose: To specify terms of sale.

Comment: A. If the code in ITD01 is 04, then ITD09
is required and either ITD11 or ITD12
is required. If the code in ITD01 equals
05, then ITD06 or ITD07 is required.

Syntax Notes: 01 If ITD03 is present, then at least one of
ITD04, ITD05, ITD13 is required.
02 If ITD08 is present, then at least one of
ITD04, ITD05 or ITD13 is required.
03 If ITD09 is present, then ITD10 or
ITD11 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ITD01	336	Terms Type Code	O ID 2/2
		Code identifying type of payment terms.	

Terms Type Code
[027 A *]

Use code 14 for the liquidation rate,
BLOCK 6b and code 08 for the
progress payment rate, BLOCK 6a.

Code Definition

08	Basic Discount Offered
14	Previously Agreed Upon

ITD02	333	Terms Basis Date Code	O ID 1/2
-------	-----	-----------------------	----------

Terms Discount Percent
[028 A]

Discount Percent. When ITD01 is
code 14, insert the liquidation rate;
when code 08, insert the progress
payment rate.

Terms Discount Days Due
[029 A]

Discount Days. When ITD03 is
filled, insert a zero (0) in ITD05 to
satisfy syntax requirement.

ITD03	338	Terms Discount Percent	O R	1/6	Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date.
ITD04	370	Terms Discount Due Date	C DT	6/6	
ITD05	351	Terms Discount Days Due	C NO	1/3	Number of days in the terms discount period by which payment is due if terms discount is earned.
ITD06	446	Terms Net Due Date	O DT	6/6	
ITD07	386	Terms Net Days	O NO	1/3	
ITD08	362	Terms Discount Amount	O N2	1/10	
ITD09	388	Terms Deferred Due Date	O DT	6/6	
ITD10	389	Deferred Amount Due	C N2	1/10	
ITD11	342	Percent of Invoice Payable	C R	1/5	
ITD12	352	Description	O AN	1/80	
ITD13	765	Day of Month	C NO	1/2	
ITD14	107	Payment Method Code	O ID	1/1	

Segment: DTM Date/Time Reference
Table: 1
Sequence: 140
Usage: O
Max Use: 10
Loop:
Purpose: To specify pertinent dates and times
Syntax Notes: 01 At least one of DTM02 or DTM03 must be present.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
--------------	-----------------	------	------------

DTM01	374	Date/Time Qualifier	M ID 3/3
-------	-----	---------------------	----------

Code specifying type of date or time, or both date and time.

Date/Time Qualifier
[030 A *]

Use code 041 to represent the section II date referred to as "statement of costs under this contract through ____". Use code 152 to represent the certification date from which there has been no materially adverse change in financial condition.

Code Definition

041	Status (Prior and Including)
152	Effective Date of Change

DTM02	373	Date	C DT 6/6
-------	-----	------	----------

Date (YYMMDD).

Date
[031 A]

DTM03	337	Time	C TM 4/4
-------	-----	------	----------

DTM04	623	Time Code	O ID 2/2
-------	-----	-----------	----------

Segment: IT1 **Baseline Item Data (Invoice)**
Table: 2
Sequence: 10
Usage: O
Max Use: 1
Loop:

Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions.

Comment: A. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of ID's.
B. IT101 is the purchase order line item identification.
C. IT106 through IT125 provides for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Syntax Notes: 01 If IT106 is present, then IT107 is required.
02 If IT108 is present, then IT109 is required.
03 If IT110 is present, then IT111 is required.
04 If IT112 is present, then IT113 is required.
05 If IT114 is present, then IT115 is required.
06 If IT116 is present, then IT117 is required.
07 If IT118 is present, then IT119 is required.
08 If IT120 is present, then IT121 is required.
09 If IT122 is present, then IT123 is required.
10 If IT124 is present, then IT125 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IT101	350	Assigned Identification	O AN 1/8
Alphanumeric characters assigned for differentia-			

Assigned Identification
[032 A]

REQUIRED

The number of the line of costs being reported. BLOCKS 19 or 26. Use the number 28 for outlays to date and the number 29 for estimated next quarter outlays. When IT101 contains "FMS," the amount in IT104 is the FMS total amount.

Quantity Invoiced
[033 A]

Use the number 1 to satisfy syntax requirement.

Unit of Measurement Code
[034 A *]

Use code EA to satisfy the syntax requirement.

Unit Price
[035 A]

The amount for the line or FMS total cited in IT101.

tion within a transaction set.

IT102 358 Quantity Invoiced M R 1/10
Number of units invoiced (supplier units).

IT103 355 Unit of Measurement Code M ID 2/2
Code identifying the basic unit of measurement.

Code	Definition
EA	Each

IT104 212 Unit Price M R 1/14
Price per unit of product, service, commodity, etc.

IT105 639 Basis of Unit Price Code O ID 2/2

IT106 235 Product/Service ID Qualifier O ID 2/2

IT107 234 Product/Service ID C AN 1/30

IT108 235 Product/Service ID Qualifier O ID 2/2

IT109	234	Product/Service ID	C	AN	1/30
IT110	235	Product/Service ID Qualifier	O	ID	2/2
IT111	234	Product/Service ID	C	AN	1/30
IT112	235	Product/Service ID Qualifier	O	ID	2/2
IT113	234	Product/Service ID	C	AN	1/30
IT114	235	Product/Service ID Qualifier	O	ID	2/2
IT115	234	Product/Service ID	C	AN	1/30
IT116	235	Product/Service ID Qualifier	O	ID	2/2
IT117	234	Product/Service ID	C	AN	1/30
IT118	235	Product/Service ID Qualifier	O	ID	2/2
IT119	234	Product/Service ID	C	AN	1/30
IT120	235	Product/Service ID Qualifier	O	ID	2/2
IT121	234	Product/Service ID	C	AN	1/30
IT122	235	Product/Service ID Qualifier	O	ID	2/2
IT123	234	Product/Service ID	C	AN	1/30
IT124	235	Product/Service ID Qualifier	O	ID	2/2
IT125	234	Product/Service ID	C	AN	1/30

Segment: SLN Subline Item Detail

Table: 2

Sequence: 200

Usage: O

Max Use: 1

Loop:

Purpose: To specify product subline detail item data

Comment: A. See the Data Dictionary for a complete list of ID's.
B. SLN01 is the identifying number for the subline item. It is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
C. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
D. SLN09 through SLN28 provide for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Syntax Notes: 01 If SLN06 is present, then SLN08 is required.
02 If SLN07 is present, then SLN06 is required.
03 If SLN09 is present, then SLN10 is required.
04 If SLN11 is present, then SLN12 is required.
05 If SLN13 is present, then SLN14 is required.
06 If SLN15 is present, then SLN16 is required.
07 If SLN17 is present, then SLN18 is required.
08 If SLN19 is present, then SLN20 is required.
09 If SLN21 is present, then SLN22 is required.
10 If SLN23 is present, then SLN24 is required.
11 If SLN25 is present, then SLN26 is required.
12 If SLN27 is present, then SLN28 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
--------------	-----------------	------	------------

SLN01	350	Assigned Identification	M AN 1/6
-------	-----	-------------------------	----------

Alphanumeric characters assigned for differentiation within a transaction set.

Assigned Identification
[036 A]

Repeat the number or alpha code in
IT101.

SLN02	350	Assigned Identification	O AN 1/6
-------	-----	-------------------------	----------

Alphanumeric characters assigned for differentiation within a transaction set.

Assigned Identification
[037 A]

REQUIRED

The number of the line being
reported; 9 through 25 less lines 19
and 26, or a two-character Country
Code when SLN01 is FMS.

SLN03	661	Configuration Code	M ID 1/1
-------	-----	--------------------	----------

Code indicating the relationship of the subline item
to the baseline item.

Configuration Code
[038 A *]

Always use code I.

Code	Definition
I	Included

SLN04	380	Quantity	M R 1/10
-------	-----	----------	----------

Numeric value of quantity.

Quantity
[039 A]

Use the number "1" to satisfy the
syntax requirement.

Unit of Measurement Code
[040 A *]
Use code EA to satisfy the syntax re-
quirement.

Unit Price
[041 A]
The amount of the line cited in
SLN01.

SLN05 355 Unit of Measurement Code M ID 2/2
Code identifying the basic unit of measurement.

Code	Definition
EA	Each

SLN06 212 Unit Price C R 1/14
Price per unit of product, service, commodity, etc.

SLN07 639 Basis of Unit Price Code O ID 2/2

SLN08 662 Subline Price Change Code ID C ID 1/1

SLN09 235 Product/Service ID Qualifier O ID 2/2

SLN10 234 Product/Service ID C AN 1/30

SLN11 235 Product/Service ID Qualifier O ID 2/2

SLN12 234 Product/Service ID C AN 1/30

SLN13 235 Product/Service ID Qualifier O ID 2/2

SLN14 234 Product/Service ID C AN 1/30

SLN15 235 Product/Service ID Qualifier O ID 2/2

SLN16 234 Product/Service ID C AN 1/30

SLN17 235 Product/Service ID Qualifier O ID 2/2

SLN18	234	Product/Service ID	C	AN	1/30
SLN19	235	Product/Service ID Qualifier	O	ID	2/2
SLN20	234	Product/Service ID	C	AN	1/30
SLN21	235	Product/Service ID Qualifier	O	ID	2/2
SLN22	234	Product/Service ID	C	AN	1/30
SLN23	235	Product/Service ID Qualifier	O	ID	2/2
SLN24	234	Product/Service ID	C	AN	1/30
SLN25	235	Product/Service ID Qualifier	O	ID	2/2
SLN26	234	Product/Service ID	C	AN	1/30
SLN27	235	Product/Service ID Qualifier	O	ID	2/2
SLN28	234	Product/Service ID	C	AN	1/30

Segment: TDS **Total Monetary Value Summary**
Table: 3
Sequence: 10
Usage: M
Max Use: 1
Loop:
Purpose: To specify the total invoice discounts and amounts
Comment: A. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TDS01	361	Total Invoice Amount Amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).	M N2 1/10
TDS02	390	Amount Subject to Terms Discount Amount upon which the terms discount amount is calculated.	C N2 1/10
TDS03	391	Discounted Amount Due Amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount.)	O N2 1/10

Total Invoice Amount
[042 A]

The amount of the request for progress payment. BLOCK 26 repeated here.

Amount Subject to Terms Discount
[043 A]

An entry in TDS02 indicates that the amount requested is less than the mathematical total of the request for progress payment.

Discounted Amount Due
[044 A]

The amount allowed by the contracting officer. BLOCK 27.

Terms Discount Amount [045 A]	TDS04 362 Terms Discount Amount	O N2 1/10
Total amount of the contract. BLOCK 5.	Total amount of terms discount.	

Segment: CTT Transaction Totals

Table: 3

Sequence: 70

Usage: M

Max Use: 1

Loop:

Purpose: To transmit a hash total for a specific element in the transaction set

Comment: A. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Syntax Notes: 01 If CTT03 is present, then CTT04 is required.
02 If CTT05 is present, then CTT06 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
CTT01	354	Number of Line Items Total number of line items in the transaction set.	M NO 1/6
CTT02	347	Hash Total	O R 1/10
CTT03	81	Weight	O R 1/8
CTT04	355	Unit of Measurement Code	C ID 2/2
CTT05	183	Volume	O R 1/8
CTT06	355	Unit of Measurement Code	C ID 2/2
CTT07	352	Description	O AN 1/80

Number of Line Items
[046 A]

CTT01 will carry the accumulation of the number of IT1 segments contained in the transaction set.

Segment: SE Transaction Set Trailer
Table: 3
Sequence: 80
Usage: M
Max Use: 1
Loop:

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Comment: A. SE is the last segment of each transaction set.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	96	Number of Included Segments	M NO 1/6
		Total number of segments included in a transaction set including ST and SE segments.	
SE02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number assigned by the originator for a transaction set.	

Number of Included Segments
[047 A]

Transaction Set Control
Number
[048 A]

Control No. (same number will be
found in ST02 in Header).

10.C Example - X12 Transaction Set 810 Invoice

This appendix contains an example of Transaction Set 810 as it is used to transmit invoice information to a DoD payment center.

{BLANK PAGE}

Example - Invoice information from Billing Party to DoD using ANSI X12 810

ST*810*00001 n/l	Transaction set identifier code and transaction set control number
BIG*920623*12345*920530*DAAZ99-92-C-2468***PA n/l	Invoice date and number, contract date and number, and progress payment indicator
REF*PX*13579 n/l	Previous invoice number
REF*VR*24680 n/l	Vendor's identification number
N1*SE**33*23456 n/l	Selling party's CAGE code
N1*BY**ZZ*65432 n/l	Buying party's DFARS appendix G code
N1*PR**10*33445 n/l	DODAAC of paying office
PER*AC*SUE SMITH*ALL*998-8888 n/l	AUTOVON telephone number of ACO point of contact
PER*CE*JOHN DOE*TE*123-456-7890 n/l	Commercial telephone number of party certifying the request for progress payment
ITD*14**80**0 n/l	Liquidation rate
ITD*08**85**0 n/l	Progress payment rate
DTM*041*920630 n/l	Statement of costs under this contract through date
DTM*1*2*910101 n/l	Certification date from which there has been no materially adverse change in financial condition
IT1*19*1*EA*16.25 n/l	Maximum balance eligible for progress payment
SLN*19*9*I*1*EA*10.00 n/l	Paid costs eligible
SLN*19*10*I*1*EA*20.00 n/l	Incurred costs eligible
SLN*19*11*I*1*EA*30.00 n/l	Total costs eligible
SLN*19*12A*I*1*EA*50.00 n/l	Total costs incurred to date
SLN*19*12B*I*1*EA*200.00 n/l	Estimated additional cost to complete
SLN*19*13*I*1*EA*25.50 n/l	Total costs eligible times progress payment rate
SLN*19*14A*I*1*EA*5.00 n/l	Progress payments paid to subcontractors
SLN*19*14B*I*1*EA*4.25 n/l	Liquidated progress payments to subcontractors

DEPARTMENT OF DEFENSE
DRAFT IMPLEMENTATION CONVENTION

810 INVOICE (Progress Payment)
ANSI ASC X12 VERSION/RELEASE 003010000

SLN*19*14C*I*1*EA*.75 n/l	Unliquidated progress payments to subcontractors
SLN*19*14D*I*1*EA*0.00 n/l	Subcontract progress billings approved for current payment
SLN*19*14E*I*1*EA*.75 n/l	Eligible subcontractor progress payments
SLN*19*15*I*1*EA*26.25 n/l	Total dollar amount
SLN*19*16*I*1*EA*240.00 n/l	Contract price times the liquidation rate
SLN*19*17*I*1*EA*26.25 n/l	Less of total dollar amount or contract price times the liquidation rate
SLN*19*18*I*1*EA*10.00 n/l	Total amount of previous progress payments requested
IT1*26*1*I*EA*0.00 n/l	Amount of current invoice for progress payment
SLN*26*20A*I*1*EA*30.00 n/l	Costs included in total costs eligible for progress payments, applicable to items delivered, invoice, and accepted to date
SLN*26*20B*I*1*EA*0.00 n/l	Costs eligible for progress payments applicable to undelivered items
SLN*26*20C*I*1*EA*0.00 n/l	Costs eligible for progress payments applicable to undelivered items times the progress payment rate
SLN*26*20D*I*1*EA*.75 n/l	Eligible subcontractor progress payments
SLN*26*20E*I*1*EA*.75 n/l	Limitation
SLN*26*21A*I*1*EA*30.00 n/l	Contract price of items delivered, accepted, and invoiced
SLN*26*21B*I*1*EA*270.00 n/l	Contract price of items not delivered
SLN*26*21C*I*1*EA*216.00 n/l	Contract price of items not delivered times the liquidation rate
SLN*26*21D*I*1*EA*0.00 n/l	Unliquidated advance payments
SLN*26*21E*I*1*EA*216.00 n/l	Limitation
SLN*26*22*I*1*EA*.75 n/l	Maximum unliquidated progress payments
SLN*26*23*I*1*EA*.75 n/l	Total amount applied and to be applied to reduce progress payments
SLN*26*24*I*1*EA*9.75 n/l	Unliquidated progress payments
SLN*26*25*I*1*EA*0.00 n/l	Maximum permissible progress payment
TDS*0.00**0.00*300.00 n/l	Amount of progress payment requested, allowed by the contracting officer, and total amount of the contract

DEPARTMENT OF DEFENSE
DRAFT IMPLEMENTATION CONVENTION

810 INVOICE (Progress Payment)
ANSI ASC X12 VERSION/RELEASE 003010000

CTT*2 n/1

Number of IT1 segments in the transaction set

SE*47*00001 n/1

Number of included segments and transaction set
control number

NOTE: ALL NUMBERS ARE NOTIONAL AND USED FOR ILLUSTRATION PURPOSES ONLY.

{BLANK PAGE}

REPORT DOCUMENTATION PAGE

Form Approved
OPM No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources gathering, and maintaining the data needed, and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

1. AGENCY USE ONLY (Leave Blank)		2. REPORT DATE Jan 93		3. REPORT TYPE AND DATES COVERED Draft	
4. TITLE AND SUBTITLE DoD Electronic Data Interchange (EDI) Convention: ASC X12 Transaction Set 810 Invoice (Progress Payment) (Version 003010)				5. FUNDING NUMBERS C MDA903-90-C-0006 PE 0902198D	
6. AUTHOR(S) Stephen Luster Richard Modrowski William T. James					
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Logistics Management Institute 6400 Goldsboro Road Bethesda, MD 20817-5886				8. PERFORMING ORGANIZATION REPORT NUMBER LMI-DL203LN4	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) DoD Executive Agent for EC/EDI/PLUS Defense Logistics Agency DLA-ZIE, Cameron Station Alexandria, VA 22304				10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES Prepared in cooperation with Data Interchange Standards Association, the Secretariat and administrative arm of the Accredited Standards Committee X12.					
12a. DISTRIBUTION/AVAILABILITY STATEMENT A: Approved for public release; distribution unlimited				12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) This is an Electronic Data Interchange (EDI) systems design document that describes the standard or "convention" the Department of Defense (DoD) will use to accept a contractor's request for progress payment using the ASC X12 Transaction Set 810 Invoice (003010).					
14. SUBJECT TERMS Electronic Data Interchange; EDI; DoD EDI Convention: Electronic Commerce; ANSI X12; X12; electronic standards; electronic business standards; computer-to-computer exchange of data; electronic documents; electronic records; paperless environment; conventions				15. NUMBER OF PAGES 84	
				16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT UL		